





BBBBBBBB	AAAAAA	SSSSSSSS	GGGGGGGG	EEEEEEEEEE	TTTTTTTTTT	RRRRRRRR	FFFFFFFFFF	AAAAAA
BBBBBBBB	AAAAAA	SSSSSSSS	GGGGGGGG	EEEEEEEEEE	TTTTTTTTTT	RRRRRRRR	FFFFFFFFFF	AAAAAA
BB	AA	SS	GG	EE	TT	RR	FF	AA
BB	AA	SS	GG	EE	TT	RR	FF	AA
BB	AA	SS	GG	EE	TT	RR	FF	AA
BB	AA	SS	GG	EE	TT	RR	FF	AA
BBBBBBBB	AA	SSSSSS	GG	EEEEEEEE	TT	RRRRRRRR	FFFFFFFFFF	AA
BBBBBBBB	AA	SSSSSS	GG	EEEEEEEE	TT	RRRRRRRR	FFFFFFFFFF	AA
BB	AAAAAAAAAA	SS	GG	EE	TT	RR	FF	AAAAAAAAAA
BB	AAAAAAAAAA	SS	GG	EE	TT	RR	FF	AAAAAAAAAA
BB	AA	SS	GG	EE	TT	RR	FF	AA
BB	AA	SS	GG	EE	TT	RR	FF	AA
BBBBBBBB	AA	SSSSSSSS	GGGGGG	EEEEEEEEEE	TT	RR	FF	AA
BBBBBBBB	AA	SSSSSSSS	GGGGGG	EEEEEEEEEE	TT	RR	FF	AA

LL	IIIIII	SSSSSSSS
LL	IIIIII	SSSSSSSS
LL	II	SS
LL	II	SS
LL	II	SS
LL	II	SS
LL	II	SSSSSS
LL	II	SSSSSS
LL	II	SS
LL	II	SS
LL	II	SS
LL	II	SS
LLLLLLLLLL	IIIIII	SSSSSSSS
LLLLLLLLLL	IIIIII	SSSSSSSS



```
1 0001 0 MODULE BAS$GETRFA (
2 0002 0 IDENT = '1-004'
3 0003 0 ) =
4 0004 1 BEGIN
5 0005 1
6 0006 1 *****
7 0007 1 *
8 0008 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
9 0009 1 * DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
10 0010 1 * ALL RIGHTS RESERVED.
11 0011 1 *
12 0012 1 * THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
13 0013 1 * ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
14 0014 1 * INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
15 0015 1 * COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
16 0016 1 * OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
17 0017 1 * TRANSFERRED.
18 0018 1 *
19 0019 1 * THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
20 0020 1 * AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
21 0021 1 * CORPORATION.
22 0022 1 *
23 0023 1 * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
24 0024 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
25 0025 1 *
26 0026 1 *
27 0027 1 *****
28 0028 1
29 0029 1
30 0030 1 ++
31 0031 1 FACILITY: Basic Language Support
32 0032 1
33 0033 1 ABSTRACT:
34 0034 1
35 0035 1 BAS$GETRFA will fetch the RFA stored in the RAB.
36 0036 1
37 0037 1 ENVIRONMENT: Runs at any access mode - AST reentrant
38 0038 1
39 0039 1 AUTHOR: Pamela Levesque, CREATION DATE: 2-Jun-1982
40 0040 1
41 0041 1 MODIFIED BY:
42 0042 1
43 0043 1 1-001 - Original. PLL 02-Jun-1982
44 0044 1 1-002 - Make routine global. PLL 3-Jun-1982
45 0045 1 1-003 - RFA is passed by ref. Also, give an error if there is no rfa.
46 0046 1 PLL 4-Jun-1982
47 0047 1 1-004 - Set up ISB$A_USER_FP so the unwind in the error handler works
48 0048 1 properly. KC 12-Jun-1984.
49 0049 1 --
50 0050 1
```



## Declarations

```
: 52      0051 1 %SBTTL 'Declarations'
: 53      0052 1
: 54      0053 1 SWITCHES:
: 55      0054 1
: 56      0055 1
: 57      0056 1 SWITCHES ADDRESSING_MODE (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);
: 58      0057 1
: 59      0058 1
: 60      0059 1 LINKAGES:
: 61      0060 1
: 62      0061 1 NONE
: 63      0062 1
: 64      0063 1 TABLE OF CONTENTS:
: 65      0064 1
: 66      0065 1
: 67      0066 1 FORWARD ROUTINE
: 68      0067 1 BASSGETRFA : NOVALUE; ! Get RFA from RAB
: 69      0068 1
: 70      0069 1
: 71      0070 1 INCLUDE FILES:
: 72      0071 1
: 73      0072 1
: 74      0073 1 LIBRARY 'RTLSTARLE'; ! System symbols, typically from SYSS$LIBRARY:STARLET.L32
: 75      0074 1
: 76      0075 1 REQUIRE 'RTLIN:RTLPSECT'; ! Define PSECT declarations macros
: 77      0170 1
: 78      0171 1 REQUIRE 'RTLML:OTSISB';
: 79      0339 1
: 80      0340 1 REQUIRE 'RTLML:OTSLUB';
: 81      0480 1
: 82      0481 1 REQUIRE 'RTLIN:OTSLNK';
: 83      0910 1
: 84      0911 1 MACROS:
: 85      0912 1
: 86      0913 1 NONE
: 87      0914 1
: 88      0915 1 EQUATED SYMBOLS:
: 89      0916 1
: 90      0917 1 NONE
: 91      0918 1
: 92      0919 1 FIELDS:
: 93      0920 1
: 94      0921 1 NONE
: 95      0922 1
: 96      0923 1 PSECTS:
: 97      0924 1
: 98      0925 1 DECLARE_PSECTS (BAS); ! Declare PSECTs for BASS$ facility
: 99      0926 1
: 100     0927 1 OWN STORAGE:
: 101     0928 1
: 102     0929 1 NONE
: 103     0930 1
: 104     0931 1 EXTERNAL REFERENCES:
: 105     0932 1
: 106     0933 1
: 107     0934 1 EXTERNAL ROUTINE
: 108     0935 1 BASS$STOP_IO : NOVALUE, ! Signal fatal I/O error
```



BAS\$GETRFA  
1-004

Declarations

G 16  
16-Sep-1984 00:34:55 VAX-11 Bliss-32 V4.0-742  
14-Sep-1984 11:55:04 [BASRTL.SRC]BAS\$GETRFA.B32;1

Page 3  
(2)

:	109	0936	1	BAS\$\$CB_PUSH : JSB_CB_PUSH NOVALUE,	!	Load register CCB
:	110	0937	1	BAS\$\$CB_POP : JSB_CB_POP NOVALUE;	!	Done with register CCB
:	111	0938	1			
:	112	0939	1	EXTERNAL LITERAL	!	Condition value symbols
:	113	0940	1	BAS\$K_NO_CURREC : UNSIGNED (8),	!	No current record
:	114	0941	1	BAS\$K_ILCILLACC : UNSIGNED (8),	!	Illegal or illogical access
:	115	0942	1	BAS\$K_IO_CHANOT : UNSIGNED (8);	!	I/O channel not open
:	116	0943	1			



BASSGETRFA  
1-004

BASSGETRFA - Get RFA from RAB

H 16  
16-Sep-1984 00:34:55  
14-Sep-1984 11:55:04

VAX-11 Bliss-32 V4.0-742  
[BASRTL.SRC]BASSGETRFA.B32;1

Page 4  
(3)

```

: 118 0944 1 %SBTTL 'BASSGETRFA - Get RFA from RAB'
: 119 0945 1 GLOBAL ROUTINE BASSGETRFA (
: 120 0946 1     UNIT,
: 121 0947 1     RFA
: 122 0948 1 ) : NOVALUE =
: 123 0949 1
: 124 0950 1 ++
: 125 0951 1 FUNCTIONAL DESCRIPTION:
: 126 0952 1
: 127 0953 1     This routine returns the RFA (record file address) of the last record
: 128 0954 1     accessed for the specified channel. The 6 byte RFA is stored in the
: 129 0955 1     location passed as a dtype z descriptor.
: 130 0956 1
: 131 0957 1 CALLING SEQUENCE:
: 132 0958 1
: 133 0959 1     BASSGETRFA (UNIT.rlu.v, RFA.wx.r)
: 134 0960 1
: 135 0961 1 FORMAL PARAMETERS:
: 136 0962 1
: 137 0963 1     UNIT.rlu.v     logical unit number
: 138 0964 1     RFA.wx.r      where to store the RFA
: 139 0965 1
: 140 0966 1 IMPLICIT INPUTS:
: 141 0967 1
: 142 0968 1     NONE
: 143 0969 1
: 144 0970 1 IMPLICIT OUTPUTS:
: 145 0971 1
: 146 0972 1     NONE
: 147 0973 1
: 148 0974 1 COMPLETION STATUS:
: 149 0975 1
: 150 0976 1     Signals any errors
: 151 0977 1
: 152 0978 1 SIDE EFFECTS:
: 153 0979 1
: 154 0980 1     NONE
: 155 0981 1
: 156 0982 1 --
: 157 0983 1
: 158 0984 2 BEGIN
: 159 0985 2
: 160 0986 2 GLOBAL REGISTER
: 161 0987 2     CCB = K_CCB_REG : REF BLOCK [, BYTE];
: 162 0988 2
: 163 0989 2 BUILTIN
: 164 0990 2     FP;
: 165 0991 2
: 166 0992 2 LOCAL
: 167 0993 2     FMP : REF BLOCK [, BYTE];
: 168 0994 2
: 169 0995 2     FMP = .FP;
: 170 0996 2
: 171 0997 2 + Allocate the LUB/ISB/RAB for this unit if necessary.
: 172 0998 2
: 173 0999 2     BASS$CB_PUSH (.UNIT, LUB$K_ILUN_MIN);
: 174 1000 2
```



BASSGETRFA  
1-004

BASSGETRFA - Get RFA from RAB

I 16  
16-Sep-1984 00:34:55  
14-Sep-1984 11:55:04

VAX-11 Bliss-32 V4.0-742  
[BASRTL.SRC]BASSGETRFA.B32;1

Page 5  
(3)

```

175 1001 2 !+
176 1002 2 ! Load the CCB with the user's FP so that an unwind in the
177 1003 2 ! error handler works properly.
178 1004 2 !-
179 1005 2 CCB [ISB$A_USER_FP] = .FMP [SF$L_SAVE_FP];
180 1006 2 !+
181 1007 2 ! If the channel is not open, give an error. There's no RFA for
182 1008 2 ! channel 0.
183 1009 2 !-
184 1010 2 IF (NOT .CCB [LUB$V_OPENED]) THEN BASS$$STOP_IO (BASS$K_IO_CHANOT);
185 1011 2 !+
186 1012 2 ! No RFA for virtual files.
187 1013 2 !-
188 1014 2 IF .CCB [LUB$V_VA_USE] THEN BASS$$STOP_IO (BASS$K_ILLILLACC);
189 1015 2 !+
190 1016 2 ! Return the RFA.
191 1017 2 !-
192 1018 2 IF .CCB [RAB$L_RFA0] NEQ 0
193 1019 2 THEN
194 1020 2 CH$MOVE (6, CCB [RAB$W_RFA], .RFA)
195 1021 2 ELSE
196 1022 2 BEGIN
197 1023 2 BASS$$STOP_IO (BASS$K_NO_CURREC)
198 1024 2 END;
199 1025 2 !+
200 1026 2 ! Pop the CCB off the I/O system.
201 1027 2 !-
202 1028 2 BASS$CB_POP ();
203 1029 2 !-
204 1030 2 BASS$CB_POP ();
205 1031 2 !-
206 1032 1 END;
```

! End of routine BASSGETRFA

.TITLE BASSGETRFA  
.IDENT \1-004\

.EXTRN BASS\$\$STOP\_IO, BASS\$CB\_PUSH  
.EXTRN BASS\$CB\_POP, BASS\$K\_NO\_CURREC  
.EXTRN BASS\$K\_ILLILLACC  
.EXTRN BASS\$K\_IO\_CHANOT

.PSECT \_BASS\$CODE, NOWRT, SHR, PIC, 2

.ENTRY BASSGETRFA, Save R2,R3,R4,R5,R6,R11  
MOVAB BASS\$\$STOP\_IO, R6  
MOVL FP, FMP  
MNEGL #8, R0  
MOVL UNIT, R2  
JSB BASS\$CB\_PUSH  
MOVL 12(FMP), -180(CCB)  
BLBS -4(CCB), 1\$  
MOVZBL #BASS\$K\_IO\_CHANOT, -(SP)  
CALLS #1, BASS\$\$STOP\_IO  
BLBC -1(CCB), 2\$  
MOVZBL #BASS\$K\_ILLILLACC, -(SP)  
CALLS #1, BASS\$\$STOP\_IO

```

                                087C 00000
56 00000000G 00 9E 00002
53          5D D0 00009
50          08 CE 0000C
52          04 AC D0 0000F
          00000000G 00 16 00013
FF4C CB 0C A3 D0 00019
07 FC AB E8 0001F
7E 00G 8F 9A 00023
66 01 FB 00027
07 FF AB E9 0002A 1$:
7E 00G 8F 9A 0002E
66 01 FB 00032
```

```

: 0945
: 0995
: 0999
: 1005
: 1010
: 1015
:
```



BASSGETRFA  
1-004

BASSGETRFA - Get RFA from RAB

J 16  
16-Sep-1984 00:34:55  
14-Sep-1984 11:55:04

VAX-11 Bliss-32 V4.0-742  
[BASRTL.SRC]BASGETRFA.B32;1

Page 6  
(3)

				10	AB	D5	00035	2\$:	TSTL	16(CCB)	:	1020
				08	08	13	00038		BEQL	3\$	:	
08	BC		10	AB	06	28	0003A		MOV C3	#6, 16(CCB), @RFA	:	1022
					07	11	00040		BRB	4\$	:	
				7E					MOVZBL	#BASSK NO CURREC, -(SP)	:	1025
				66	00G	8F	9A 00042	3\$:	CALLS	#1, BASS\$STOP_10	:	
						01	FB 00046		JSB	BASS\$CB_POP	:	1030
						00	16 00049	4\$:	RET		:	1032
						04	0004F				:	

; Routine Size: 80 bytes, Routine Base: \_BASS\$CODE + 0000

; 207 1033 1 !<BLF/PAGE>



BASSGETRFA  
1-004

BASSGETRFA - Get RFA from RAB

K 16  
16-Sep-1984 00:34:55 VAX-11 Bliss-32 V4.0-742  
14-Sep-1984 11:55:04 [BASRTL.SRC]BASGETRFA.B32;1

Page 7  
(4)

: 209 1034 1 END  
: 210 1035 1  
: 211 1036 0 ELUDOM

! End of module BASSGETRFA

PSECT SUMMARY

:  
: Name Bytes Attributes  
: \_BASS\$CODE 80 NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

Library Statistics

:  
: File Total Symbols Loaded Percent Pages Mapped Processing Time  
: \_\$255\$DUA28:[SYSLIB]STARLET.L32;1 9776 3 0 581 00:01.0

COMMAND QUALIFIERS

:  
: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACE/LIS=LISS:BASGETRFA/OBJ=OBJ\$:BASGETRFA MSRC\$:BASGETRFA/UPDATE=(ENH\$:BASGETRFA  
: )

: Size: 80 code + 0 data bytes  
: Run Time: 00:08.5  
: Elapsed Time: 00:20.3  
: Lines/CPU Min: 7338  
: Lexemes/CPU-Min: 43912  
: Memory Used: 115 pages  
: Compilation Complete



0023 AH-BT13A-SE  
VAX/VMS V4.0

DIGITAL EQUIPMENT CORPORATION  
CONFIDENTIAL AND PROPRIETARY

